



# IGPS-1080A

**Industrial 8-port slim type unmanaged Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E.**

## Features

- Provide 8x10/100/1000Base-T(X) PoE (P.S.E.) ports
- Support P.S.E. based on IEEE 802.3at standard up to 30 Watts per port
- Supports jumbo frame up to 9720 Bytes
- Support auto-negotiation and auto-MDI/MDI-X
- Support full/half-duplex transmission
- Support store and forward transmission
- Support flow control
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled

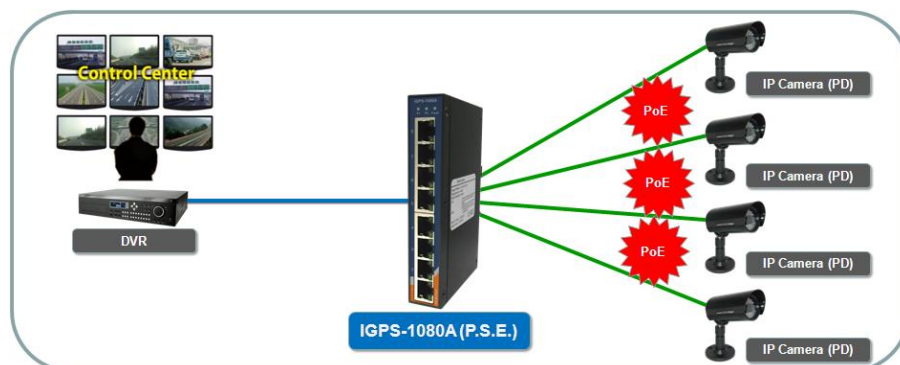


## Introduction

IGPS-1080A is unmanaged PoE Ethernet switch with P.S.E. function. IGPS-1080A supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. IGPS-1080A switch has 8X10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE setup. The wide operating temperature range from -40°C to 75°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

## Practical Operation

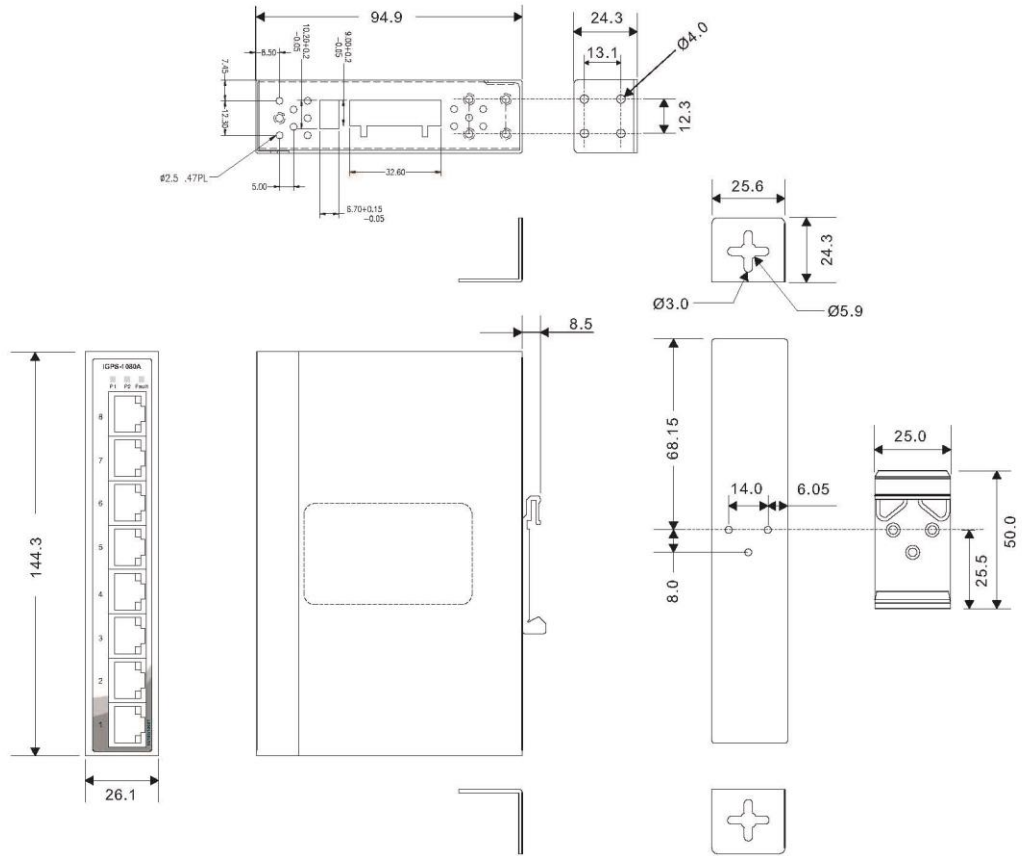
IGPS-1080A can be used in connecting several PoE P.D. Ethernet devices like IP-Camera or other Ethernet devices. In addition, there are two different power inputs at terminal block to avoid interruption caused by power down. When the primary DC power input fails, the backup power input will take over immediately to guarantee a non-stop operation.



Connections of Ethernet devices

**Dimension**

Unit =mm (Tolerance ±0.5mm)



**PoE Pin Definition**

- 10/100Base-T(X) P.S.E. RJ-45 port

RJ-45 Pin Definition	
Pin No.	Description
# 1	TD+ with PoE Power input +
# 2	TD- with PoE Power input +
# 3	RD+ with PoE Power input -
# 6	RD- with PoE Power input -

- 1000Base-T P.S.E. RJ-45 port

RJ-45 Pin Definition	
Pin No.	Description
# 1	BI_DA+ with PoE Power input +
# 2	BI_DA- with PoE Power input +

#3	BI_DB+ with PoE Power input -
#4	BI_DC+
#5	BI_DC-
#6	BI_DB- with PoE Power input -
#7	BI_DD+
#8	BI_DD-

## Specifications

ORing Switch Model	IGPS-1080A
<b>Physical Ports</b>	
10/100/1000Base-T(X) Ports in RJ45 With P.S.E.	8
<b>Technology</b>	
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)
MAC Table	4K MAC addresses
Processing	Store-and-Forward
Packet buffer size	192K Bytes
Switch Latency	<7us
Switching Bandwidth	16Gbps
Jumbo Frame	Up to 9720Bytes
<b>LED indicators</b>	
Power indicator	Green : Power LED x 2
Fault indicator	Amber : Indicate PWR1 or PWR2 failure
10/100/1000Base-T(X) RJ45 port indicator and PoE indicator	Upper for Lick/Act indicator, Green for 1G, Amber for 10/100Mbps Lower for PoE indicator, Green for PoE power injected.
<b>DIP-Switch</b>	
DIP-Switch 1	Power-2 failed warning: (ON) enable, (OFF) disable
DIP-Switch 2	Power-1 failed warning: (ON) enable, (OFF) disable
<b>Fault contact</b>	
Relay	Relay output to carry capacity of 1A at 24VDC
<b>Power</b>	
Redundant Input power	Dual DC inputs. 50 ~ 57VDC on 6-pin terminal block.
PoE output power	180 Watts
Power consumption (Typ.)	6 Watts (PoE output not included)
Overload current protection	Present
Reverse polarity protection	Present
<b>Physical Characteristic</b>	
Enclosure	IP-30 Metal
Dimension (W x D x H)	26.1 (W) x 94.9 (D) x 144.3(H) mm (1.03 x 3.74 x 5.68 inch)
Weight (g)	442 g
<b>Environmental</b>	
Storage Temperature	-40 to 85°C (-40 to 185°F)

Operating Temperature	-40 to 75°C (-40 to 167°F)
Operating Humidity	5% to 95% Non-condensing
<b>Regulatory approvals</b>	
EMC	CE EMC (EN 55024, EN 55032), FCC Part 15 B
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A
EMS	EN 55024 (IEC/EN 61000-4-2(ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4(EFT), IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11(DIP))
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN60950-1
<b>MTBF</b>	665276hrs
<b>Warranty</b>	5 years

Note : HW version 5.0

## Ordering Information

**IGPS-1AABA**

<b>Code Definition</b>	10/100/1000Base-T(X) P.S.E.	<b>Port Number</b>	<b>Additional Port Number</b>
<b>Option</b>	- 08: 8 ports	- 0: 0 port	
<b>Available Model</b>	<b>Model Name</b>	<b>Description</b>	
	IGPS-1080A	Industrial 8-port slim type unmanaged Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E.	

## Packing List

- IGPS-1080A x 1
- Din-Rail Kit x 1
- Wall-Mount Kit x 1
- Quick Installation Guide x 1

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